

# **Safety Data Sheet**

# Medium Density and High Density Fiberboard (MDF/HDF)

#### **SECTION 1: IDENTIFICATION**

Product Identifier Medium Density and High Density Fiberboard

(MDF / HDF)

Manufacturer Kronospan, LLC

1 Kronospan Way Eastaboga, AL 36360

1-256-741-8755 (non-emergency)

**Emergency Number** Only For Hazardous Materials [or Dangerous Goods]

Incident Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night 1-800-424-9300

**Recommended use** Industrial use, construction of furniture, cabinets

and doors

#### **SECTION 2: HAZARD IDENTIFICATION**

Physical State Solid

**Color** Straw yellow to medium brown.

Hazard Statement In its intact state MDF/HDF panels are not

hazardous materials. Panel edges and broken panels may cut through skin. Dust from MDF is hazardous and it is classified by the World Health Organization as causing cancer to humans. This product contains and may

release formaldehyde.

**Inhalation** Abrasive action may cause wood dust to be

generated that may be an irritant to the respiratory system. Fiberboard can emit very low amounts of gaseous formaldehyde that

decreases over time.



**Eye** Abrasive action may cause wood dust to be

generated that may be an irritant to the eyes.

**Skin** Product may be an irritant to wood sensitive

individuals.

# **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

| Name  | CAS#    | Concentration    | Exposure Limit  |
|---|---------|------------------|---|
| Formaldehyde  | 50-00-0 | < 0.1% by weight | OSHA PEL -TWA 0.75 ppm<br>OSHA PEL- STEL 2 ppm<br>ACGIH TLV- 0.3 ppm  |
|   |         |                  | 7.00m112v 0.0 ppm   |
| Wood (Hardwood<br>and Softwood of<br>various species) | NA      | > 90% by weight  | OSHA PEL –TWA 15 mg/m3 Total<br>Dust<br>OSHA PEL- 5mg/m3 Respirable Dust<br>ACGIH TLV- 1.0 mg/m3 Inhalable Dust |

#### **SECTION 4: FIRST AID MEASURES**

General advice Consult a physician. Show this safety data sheet to

the doctor in attendance. Move out of dangerous

area.

**Eye Contact** Gaseous formaldehyde and wood dust may irritate

the eyes. Flush the eyes with water if contact is made

with wood fiber..

**Skin Contact** Product may be an irritant and may cause contact

dermatitis to wood sensitive individuals. Wash skin with soapy water. Seek medical advice for chronic

symptoms of exposure.

**Inhalation** Gaseous formaldehyde and wood dust may irritate

respiratory system. Seek fresh air if PEL values are exceeded. Seek medical advice for chronic symptoms

of exposure.



**Protection of First-Aiders** No actions should be taken that involves risk to any

personnel without the proper training.

#### **SECTION 5: FIRE FIGHTING MEASURES**

**Extinguishing media**Use water, dry chemical or carbon dioxide (CO2) to

extinguish flames.

Special hazards arising from

the substance or mixture Don't inhale smoke and gases produced during the

combustion. Avoid the extinguishing to enter the

sewage systems and water bodies.

**Flammability** The material will burn. Avoid wood dust contact with

ignition sources. Avoid smoking in the workplace and

storage rooms.

**LEL** 40gr/m³ for wood dust

**Auto Ignition Temperature** 425 – 475 °F

Flash Point None

**Hazardous combustion Products** 

Smoke, Fume, Oxides of carbon, and Aldehydes.

**Protective measures in Fire** Evacuate area. Firefighters should use standard

protective equipment and in enclosed spaces, selfcontained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect

personnel.

NFPA rating Health 0 Flammability 1 Reactivity 0

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Not Applicable to finished product. Use precaution to control dust generation from abrasive cutting or sanding of the finished product.



# **SECTION 7: HANDLING AND STORAGE**

**Precautions for safe handling** No special handling instructions

**Storage** Provide adequate ventilation to avoid possible buildup

of formaldehyde emissions.

# **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **Control Parameters:**

| Name  | CAS#    | Concentration    | Exposure Limit  |
|---|---------|------------------|---|
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#### Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

TWA - Time Weighted Average 8 hours

STEL – Short Term Exposure Limit 15 minutes

#### **Engineering Measures**

No special ventilation requirements under ordinary conditions. Good general ventilation should be sufficient to control worker exposure to airborne When cutting, contaminants. drilling, sanding. planning and routing; use tools that capture all the dust at the source and work environment should be kept well ventilated.

#### **Personal Protection Measures**



**Eye/face Protection**No special ventilation requirements under ordinary

conditions. If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate such as sanding, sawing, machining fiberboard. Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European

Standard EN166.

**Skin and body protection**No special ventilation requirements under ordinary

conditions. Wood sensitive individuals should take precautions to avoid skin contact by wearing

Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or if

irritation or other symptoms are experienced.

appropriate protective gloves and clothing.

**Environmental exposure controls** 

**Respiratory Protection** 

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Physical State and Description Solid, a composite panel of lingo-cellulose

fibers bound with thermo set resin.

**Color** Straw yellow to medium Brown

Odor Mild wood odor

Odor Threshold No information available

Melting Point/Range Not Applicable

Boiling Point/Range Not Applicable

Flash Point Not Applicable



**Evaporation Rate** Not Applicable

Flammability Limits Not Applicable

Vapor Pressure Not Applicable

Vapor Density Not Applicable

**Relative Density** 680kg/m<sup>3</sup> – 990 kg/m<sup>3</sup>

Solubility in water Negligible

Auto ignition Temperature > 425°F

#### **SECTION 10: STABILITY AND REACTIVITY**

**Reactivity** Non-reactive

**Chemical Stability** Stable under normal conditions.

**Conditions to Avoid** Extreme heat and high relative humidity may liberate

emissions of formaldehyde.

**Incompatible Materials** Strong acids and oxidizing agents

**Hazardous Decomposition Products** 

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Oxides of carbon, aldehydes and organic acids may release during thermal decomposition.

**Hazardous Polymerization** Hazardous polymerization does not occur under

normal conditions.

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

**Acute Toxicity** Based on available data, it is not expected to be toxic.

However, the product itself may liberate formaldehyde if not stored properly and or wood dust if cut, sanded, or other

abrasive action is applied.



Inhalation

Studies suggest that cutting, sanding, or other abrasive action to this product may generate air born wood dust and or formaldehyde which may irritate the respiratory system or aggravate existing respiratory conditions. Users may become sensitized to wood dust or formaldehyde emissions over extended periods of time. Seek professional care if any of these symptoms are experienced. Respiratory protection may be needed if OSHA PEL is exceeded.

**Eye Contact** 

Wood fiber and or formaldehyde emissions from cutting, sanding, or other abrasive action may cause irritation of the eyes. Safety goggles or safety glasses are recommended.

**Skin Contact** 

This product when cut, sanded, or abrasively altered may produce fiber that may be irritating to the skin for wood sensitized individuals. Gloves and or other skin barriers are recommended if this occurs.

**Chronic Effects** 

Repeated exposure to dust increases the risk of nasal cavity cancers and lung fibrosis (scarring). Sensitization of respiratory system and skin, asthma and dermatitis risks are increased. The International Agency for Research on Cancer (IARC) had evaluated wood dust in Group 1: carcinogenic to humans. The International Agency for Research on Cancer evaluated formaldehyde (IARC) had in Group carcinogenic to humans. More information on IARC evaluation on wood dust and formaldehyde can be found at www.iarc.fr People affected by occupation asthma may suffer severe symptoms (shortness of breath, wheezing, cough) if in contact with even small amount of wood dust.

# **SECTION 12: ECOLOGICAL INFORMATION**

**Degradability** 

This product is expected to be inherently biodegradable.

No other specific environmental data for this product is available.

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal Methods** 

Disposal should be in accordance with applicable regional, national and local laws and regulations. This



product can be incinerated or land filled. Check with your local state, and federal regulations before disposal. This product is not classified as a hazardous waste under the federal; regulations as stated in 40 CFR 261, but be advised that some state or local disposal requirements may differ from federal requirements.

#### **SECTION 14: TRANSPORTATION**

Product is not regulated by US DOT and is not classified to be a dangerous good for any mode of transport.

#### **SECTION 15: REGULATORY INFORMATION**

# **U.S. Federal Regulations**

**US OSHA Hazardous Communication Standard** This product is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200. Product contains formaldehyde in extremely low levels and depending on conditions cutting, sanding, or machining this product may emit emissions of wood dust and formaldehyde.

#### U.S. Superfund Amendments and Reauthorization Act (SARA) Title III:

This product contains no "extremely hazardous substances".

SARA 302/304 Components No products found

SARA 311/312 Hazards No products found

**Sara 313 – Emissions Reporting -** This product contains the following EPRCRA section 313 chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372):

| CAS#    | Chemical Name | Percent by Weight |
|---------|---------------|-------------------|
| 50-00-0 | Formaldehyde  | <= 0.10           |

#### California Prop. 65 Components

Warning: Product contains formaldehyde in extremely low levels and depending on conditions cutting, sanding, or machining this product may emit emissions of wood dust and formaldehyde.



#### **SECTION 16: OTHER INFORMATION**

HMIS Rating NFPA Rating

Health hazard: 0 Health hazard: 0 Fire Hazard: 1 Physical Hazard 0 Reactivity Hazard: 0

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1 Kronospan Way

Eastaboga, AL - 36260

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#### Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text. The user assumes all responsibility for the use, storage, and handling of this product. Kronospan LLC makes no warranty of any kind, expressed or implied, for the accuracy of the data contained within this SDS. The users should always follow the most current SDS available.

**End of SDS**